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ABSTRACT OF THE DISCLOSURE

A highly available communications system capable of and tear-down without circuit reestablishment The communications system includes intervention. plurality of nodes interconnected by a plurality communications paths to form at least one communications The nodes forward control packets the on network. network by way of a signaling protocol employing an outof-band control technique. At least a portion of the nodes comprises a software configuration including a topology manager and a protocol manager. The protocol manager is operative to determine whether a control path is operational and whether a data transmission channel along a corresponding data path is established. event the control path is not operational, the protocol manager maintains the data transmission channel along the data path so long as the channel is established. topology manager is operative to acquire network topology data, and the protocol manager is further operative to the topology data, deduce network topology receive and reestablish tear-down therefrom, and changes communications paths interconnecting the nodes based at least in part on the deduced topology changes. 241097

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